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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,096	04/17/2001		Philippe Gatepin	PHFR 000041	7718
24737	7590	06/14/2006		EXAMINER	
PHILIPS II	NTELLE	CTUAL PROPE	CZEKAJ, DAVID J		
P.O. BOX 3	001				
BRIARCLII	FF MANO	R, NY 10510	ART UNIT	PAPER NUMBER	
		ŕ		2621	

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/836,096	GATEPIN, PHILIPPE				
Office Action Summary	Examiner	Art Unit				
	Dave Czekaj	2621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>23 December</u> 2a)⊠ This action is FINAL. 2b)□ This      3)□ Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) 2-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 2-7 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/23/06 has been entered.

## Response to Arguments

2. Applicant's arguments with respect to claims 2-7 have been considered but are most in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (6167084), (hereinafter referred to as "Wang") in view of Wu (6963608).

Regarding claims 2 and 4, Wang discloses an apparatus that allocates bits in a statistical multiplexing system. This apparatus comprises "a regulation process that uses quantization scales and the input signal to determine the complexity" (Wang: figure 4, wherein the regulation process is performed by the

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encoder and decoder), "computing a weighting factor of compressed data quality, the weighting factor being computed for a current picture as an average over a set of preceding pictures, of an average quantization scale and a number of bits" (Wang: figure 6, column 11-column 12, wherein the weighting factor is the complexity measure shown in equations 5 and 7-8, the compressed input signal is the compressed program), and "allocating the output bit rate to the transcoding channel from a total output bit rate, indicator, and a sum of the indicators" (Wang: figure 6, column 8, lines 54-67- column 9, lines 1-25, wherein the output bit rate is the target number of bits, the sum of the indicators is the complexities of each frame) and the indicator is computed from an average of a function of average quantization scale and a number of bits used to encode the picture" (Wang: columns 11-12, wherein the average quantization scale is Q<sub>l,n,t</sub>, the number of bits used for the picture is R<sub>l.n.t</sub>). However, Wang fails to disclose the indicator as claimed. Wu teaches that prior art computing systems fail to provide a robust solution to the problem of regulating the rate of data production (Wu: column 1, lines 43-46). To help alleviate this problem, Wu discloses "determining an indicator as a function of the channel complexity and weighting factor" (Wu: column 13, lines 31-40, wherein the indicator is the output of the MCC rate control). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Wang and add the indicator taught by Wu in order to obtain an apparatus that provides a robust solution to the control of data flow in a computing system.

Regarding claims 3 and 7, Wang discloses "the average a weighted average of a set of averages calculated over the pictures" (Wang: columns 11-12, wherein the averages is the quantization scale, the weight is the weighting factor K).

Regarding claims 5 and 6, note the examiners rejection for claim 1, and in addition Wang in view of Wu disclose "a set of transcoders for converting input compressed data at an input bit rate into output signals encoded at an output bit rate" (Wang: figures 3 and 6, wherein the transcoders convert the input bit rate into an output bit rate), "allocating the output bit rate to the transcoding channel from a total output bit rate, indicator, and a sum of the indicators" (Wang: figure 6, column 8, lines 54-67- column 9, lines 1-25, wherein the output bit rate is the target number of bits; Wu: column 13, lines 31-40, wherein the indicator is the output of the MCC rate control), and a "multiplexer for providing a multiplexed signal at the output bit rate by multiplexing the output signals" (Wang: figure 6, item 660).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (571) 272-7327. The examiner can normally be reached on Monday - Friday 9 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJC

MEHRDAD DASTOURI
SUPERVISORY PATENT EXAMINER

T.C. 2600